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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,313	02/06/2004	Y.S. Fung	2587/79618/RDK	7424
23432 7590 03/09/2010 COOPER & DUNHAM, LLP 30 Rockefeller Plaza			EXAMINER	
			MAYEKAR, KISHOR	
	20th Floor NEW YORK, NY 10112		ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			03/09/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/772,313	FUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kishor Mayekar	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 No.	ovember 2009					
·=	· 					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under L	x parte quayre, 1955 C.D. 11, 40	0.0.213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
· · · · ·	· · · · · · · · · · · · · · · · · · ·					
o) or oralling of the subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:	••				

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DETAILED ACTION

Response to Amendment

1. The amendment of 19 November 2009 has been entered. Claims 1, 8 and 14 have

been amended. Claims 1 and 3-17 are pending in this application with claim 1 being sole

independent claim.

2. Applicant's arguments with respect to claims 1 and 3-17 have been considered but

are moot in view of the new ground(s) of rejection.

Claim Objections

3. Claim 1 is objected to because of the following informalities: the unit of

conductivity is incorrect from the entering of amendment. Appropriate correction is

required.

Claim Rejections - 35 USC § 103

4. The text of those sections of Title 35, U.S. Code not included in this action can be

found in a prior Office action.

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- 5. Claims 1 and 3-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over December (6,214,188 B1) in light of December (US 6,342,144 B1). December '188's invention, a reference cited in the last Office action, is directed to an anodic electrodeposition method. December discloses, in the abstract and col. 6, lines 48-55, that the method comprises the steps of immersing a conductive workpiece in an electrophoretic bath
 - o comprising, in an aqueous medium, base-salted water dispersible polymer with particle size between 0.05 to 5 microns (or 50 to 5000 nm), preferably less than 2.0 microns, see col. 6, l. 48-55 and paragraph crossing c. 6 and 7 and Examples 2 and 4;
 - o having an electroconductivity between 0.1 to 5 mS/cm (or 100 to 5000 μ S/cm), see col. 8, lines 9-16; and
 - o containing a coalescing solvent in an amount between 0 and 15 wt%, preferably from 0.5 to 2.0 wt%, see col. 7, lines 32-46.

December also discloses in Example 5 the coating method and in Example 2 with the emulsion having a particle size of 0.22 microns (or 220 nm). The difference between December and independent claim 1 is the recited limitation of the particles "having a particle size between 10 and 100 nm with an average particle size of about 50 nm". However, since December discloses that his emulsion having the average particle size diameter of about 50 to 2000 nm, that is including the average particle size of about

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50 to 100 nm, it appears that December's method is able to electrodeposit particles of the recited limitation when the bath comprises particles having the average particle size of 50 to 100 nm, and further, in view of particle size of 220 nm in Example 2, the selection of the particle size, namely 50 nm, within the recited limitation for the anodic electrodeposition method would have been within the level of ordinary skill in the art. December '144 teaches that the polymer of December '188 is an acrylic polymer (c. 5, l. 48 through c. 6, l. 38).

As to the subject matter of claims 4 and 5, December discloses that the bath may contain pigments. As such the provision of the bath with or without pigment would have been obvious by the teachings of December.

As to the subject matter of claim 6 or 12, December discloses that the bath has a solids content of 19% (Examples 2 and 4).

As to the subject matter of each of claims 7-11 and 13-17, December further discloses the effecting of the coating and the curing of the formed coating (col. 8, lines 16-27 and Example 5 with an error indicated on the bath temperature as asserted by the examiner in the final Office action of 14 April 2009). The difference between December and claims 7 and 13 is the recited driving voltage. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified December's teachings because it has been settled that proper

adjustment of a known effective variable of a known or obvious process is within the capabilities of one having ordinary skill in the art. In re Aller 105 USPQ 233.

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Response to Arguments

6. Applicant's arguments filed 19 November 2009 have been fully considered but they are not persuasive because of the new ground of rejection as set forth in paragraph above.

As to the argument in paragraph crossing pages 6 and 7, the examiner finds this is unpersuasive because December'188's carbamate-containing polymer is an acrylic polymer, the voltage selection as asserted by the examiner in the last Office action, the acrylic polymer comprises acidic group and is base salted for use in the anodic electrodeposition method which is similar to that disclosed in page 6 of the present invention, and the bath comprises a coalescing solvent in an amount between 0 and 15 wt%, preferably from 0.5 to 2.0 wt%, as asserted by the examiner in the last Office action.

Conclusion

- 7. Claims 1 and 3-17 are rejected.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in Accordingly, THIS ACTION IS MADE FINAL. See MPEP this Office action.

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information

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Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

/Kishor Mayekar/ Primary Examiner, Art Unit 1795